

SmART: dosimetry and applications

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Stellingen behorende bij het proefschrift

SmART: Dosimetry and Applications

- 1: "Cancer is frequently expressed and misunderstood as a single disease"
- 2: "The onboard imager in small animal irradiators can not only be used for imaging but also for dosimetry"
- 3: "Shifts or misalignments of the collimators as small as 1-mm in these precision irradiator devices can lead to dose rate decreases greater than 10%"
- 4: "A dedicated treatment planning system for small animals is required for accurate irradiation in preclinical studies"
- 5: "The ability to target precisely and increase the prescription dose to murine lungs is an attractive feature of these micro-IR devices that offers opportunities to better understand radiation-induced lung toxicity in stereotactic body radiation therapy"
- 6: "Paradoxically we have documented more electronically about our own social networks than we have about our own health"
- 7: "It is fair to say that current RT practice is rather crude at considering secondary late responding toxicities, including cancer induction"
- 8: "when you have eliminated the impossible, whatever remains, *however improbable*, must be the truth" – Sherlock Holmes in *The Sign of the Four* (Doubleday p. 111)
- 9: "It always seems impossible until it's done" – Nelson Mandela
- 10: "[Physics is] a good framework for thinking. ... Boil things down to their fundamental truths and reason up from there" – Elon Musk